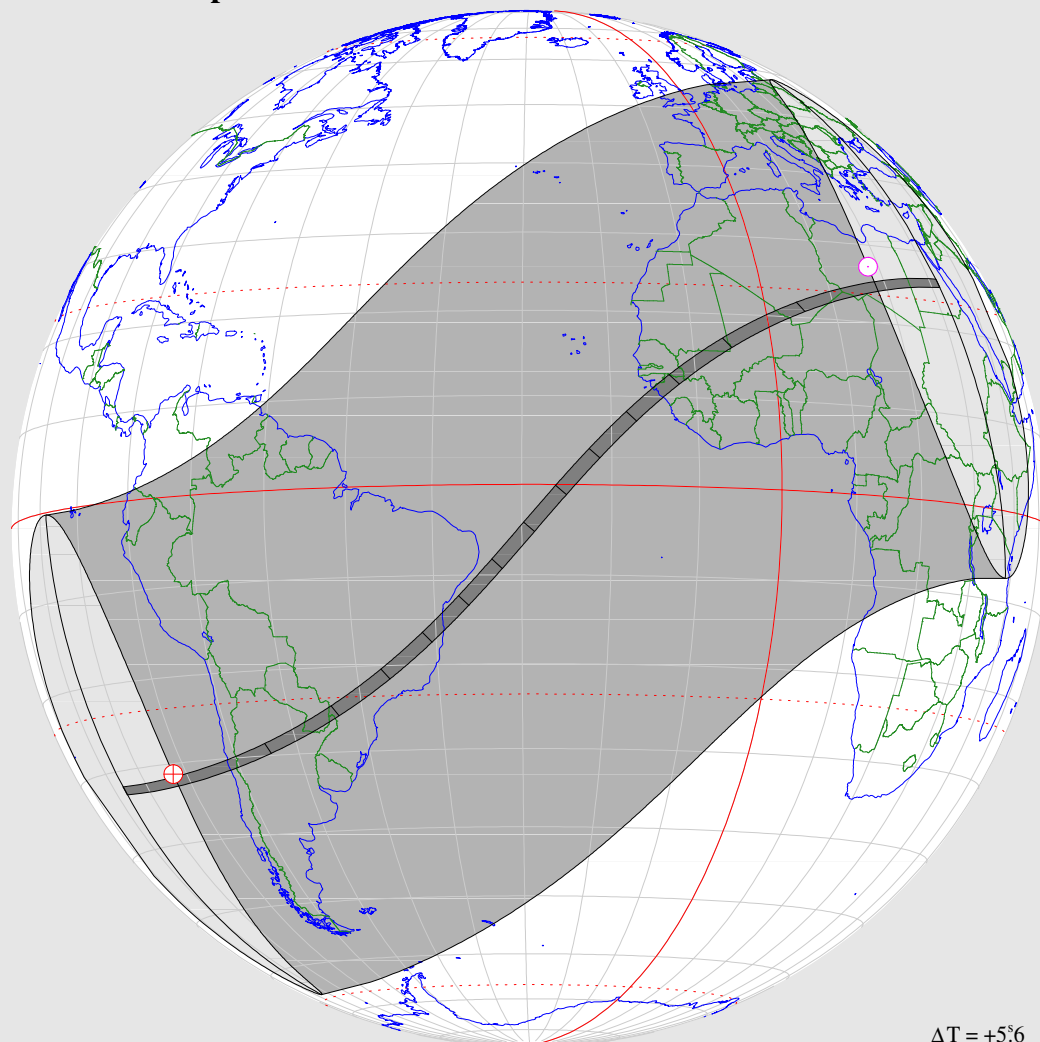


II. - Total Eclipse of the Sun

1839 March 15



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$\Delta T = +5:6$
Globe centred on W 29°1' and S 4°9'

Circumstances	Time (UT)		Longitude		Latitude	
	h	m	°	'	°	'
⊕ Eclipse begins; first contact with Earth	11	34.5	W 82	41.9	S 31	15.0
Beginning of northern limit of umbra	12	30.2	W 96	38.8	S 31	51.4
Beginning of centre line; central eclipse begins	12	30.2	W 96	41.5	S 32	22.5
Beginning of southern limit of umbra	12	30.3	W 96	44.5	S 32	53.5
Beginning of northern limit of penumbra	12	41.8	W 98	08.4	S 0	15.0
Beginning of southern limit of penumbra	12	51.3	W 105	31.2	S 65	34.1
Central eclipse at local apparent noon	14	10.4	W 30	17.4	S 5	57.2
End of southern limit of penumbra	15	36.3	E 38	30.3	S 7	22.9
End of northern limit of penumbra	15	45.0	E 32	28.3	N 57	58.7
End of southern limit of umbra	15	56.9	E 32	00.9	N 25	25.8
End of centre line; central eclipse ends	15	57.0	E 31	58.3	N 25	57.6
End of northern limit of umbra	15	57.0	E 31	55.8	N 26	29.4
⊙ Eclipse ends; last contact with Earth	16	52.7	E 17	59.7	N 27	05.1